

ABSTRACT OF THE DISCLOSURE

The line driver with active termination includes: a differential amplifier having an inverting output terminal, a non-inverting output terminal, an inverting input terminal, and a non-inverting input terminal; a

5 first resistor unit coupled to the inverting input terminal; a impedance matching resistor unit coupled to the non-inverting output terminal; and a resistive feedback network, having a plurality of resistors in symmetric configuration. The resistive feedback network further includes: a second resistor unit coupled to the impedance matching resistor unit and the

10 inverting input terminal; a third resistor unit coupled to the non-inverting output terminal and the inverting input terminal; a fourth resistor unit coupled to the impedance matching resistor unit and the inverting input terminal; and a fifth resistor unit coupled to the inverting output terminal and the inverting input terminal. Each of the resistor units and the

15 impedance matching resistor unit includes a plurality of resistors in symmetric configuration.